

# chris vandevelde

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## summary of qualifications

- Moderate programming experience in **Python**, **Javascript**, **Java**, **HTML**, **CSS**, and **SQL**.
- Strong interest in **Machine Intelligence** and **Human-Computer Interaction**.
- Previous programming experience in Node.js, Perl, PHP, C++, bash scripting and ColdFusion.
- Experience with Adobe Photoshop, Inkscape, Microsoft Office, and in Mac, Linux, and Windows environments.
- Bilingual in **English** and **French**.

## experience

### canopy labs

Data-Mining & Machine Learning Developer

Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

### square

Android Developer

San Francisco, California

Jan 2012 – April 2012 (Full Time)

Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's [Wallet](#) and [Register](#) **Android** applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks [Robolectric](#) and [Robotium](#).
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

### upverter

Blacksmith/Mad Scientist

Toronto, Ontario

May 2011 – August 2011 (Full Time)

- Contributed features and bug-fixes to the development of an HTML5 Canvas and Python web application for Electronic Circuit Design, as well as a community-centered project showcase and parts library.
- Learned multiple new languages and APIs over four months including **Python**, **Protocol Buffers**, **HTML5 Canvas** and **Google Closure**.
- Developed a robust Node.js-based standalone script that used the existing Javascript & HTML5 Canvas rendering process, and batch export images to PNG.
- Also contributed to various side projects including **Arduino** and **Android** connections over USB, MIDI signal generation and Amazon EC2 setup.

## **h4cker factory**

Developer

Toronto, Ontario

November 2010 – June 2012 (Part Time)

- Developing & designing an **Android** application for deployment of a project-management assessment survey with other Waterloo Engineering students as freelance developers for a company in Toronto.
- Learned Java, the Android API, and **XStream** XML object conversion in a manner of weeks for the project.
- Also created user interface & look and feel for iPhone, Android and Blackberry versions of app.

## **ontario institute for cancer research**

Genome Software Developer

Toronto, Ontario

May 2010 – December 2010 (Full Time)

- Bug-fixing, feature addition and updates in code & architecture on [GBrowse](#), an open-source web application built in Perl, HTML, CSS & Javascript and a variety of SQL-compliant databases.
- Built and tested from scratch a custom data-sharing system onto the existing application.
- Worked in an entirely Linux-based development environment using Subversion.
- Additionally developed a layout algorithm for sorting glyphs onto the theoretically smallest space for the project.

## **education**

### **university of waterloo**

Bachelor of Applied Sciences in Systems Design Engineering

Waterloo, Ontario

September 2008 – June 2014

#### Relevant Courses

- Pattern Recognition – Methods for classifying and interpreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Biomedical Measurement & Signal Processing – EMG, EKG, EEG signals.
- Control Systems – Controls engineering, systems theory, PID control and action.
- Image Processing – Analyzing, adjusting, and filtering image data.
- Data Structures & Algorithms – Data structure and algorithm characteristics and use.
- *Various core courses* – Design process, creating unique solutions based on end-user needs, general systems.

### **clarkson secondary school**

Ontario Secondary School Diploma

French Immersion Diploma

Mississauga, Ontario

June 2007

June 2007

## **awards**

### **university of waterloo**

President's Scholarship

Waterloo, Ontario

September 2008

### **clarkson secondary school**

Black Charger Award (800+ hours of extra-curricular involvement)

Six Principal's Reception awards (awards for school commitment)

Mississauga, Ontario

September 2007

September 2006 – June 2008

## **activities & interests**

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
- Interested in cognitive science, human-computer interaction, interface design and artificial intelligence. Maintains an online sketchbook at <http://blg.chrs.vndvl.de>
- Webmaster for several websites, including the [Engineering Jazz Band](#).
- Historian for the University of Waterloo's [Engineering Society](#).